In the Claims:

Please cancel Claim 1, without prejudice, and amend Claim 2 as follows such that the Claims read as set forth below.

- 1. Canceled, without prejudice.
- 2. (Currently Amended) An image forming apparatus for forming an image in a plurality of image forming modes, comprising:

an image reading section for reading a document;
an image forming section for forming an image based on image
data of the document read; and

values corresponding to the plurality of image forming modes
based on reference image data generated by reading a reference
document having a tone pattern formed thereon;

The image forming apparatus as set forth in Claim 1,

wherein:

said plurality of image forming modes include a first image forming mode for forming an image by reading an ordinary document, and a second image forming mode for forming an image by reading a duplicate document which was copied in said image forming section, and

said first setting means sets a first input/output characteristic value,
which is used in the first image forming mode, and a second
input/output characteristic value, which is used in the second
image forming mode, by reading the reference document in said
image reading section.

- 3. (Original) The image forming apparatus as set forth in claim 2, wherein said first setting means creates the first input/output characteristic value by comparing first image data, which has been created by reading the reference document in said image reading section, and a pre-stored target value, and creates the second input/output characteristic value by comparing the target value, and second image data, which is compensated data of the first image data, using a pre-stored fixed value which corresponds to a difference in the respective input/output characteristic values.
- 4. (Original) The image forming apparatus as set forth in claim 2, further comprising: second setting means for outputting the reference image data to said image forming section based on the first input/output characteristic value, and setting the second input/output characteristic value based upon a duplicate reference document, which is a copy of the reference document made by said image forming section.
- 5. (Original) The image forming apparatus as set forth in claim 2, further comprising: an operating section, which is adapted to adjust the second input/output characteristic value when setting the second input/output characteristic value, which is used in the second image forming mode.
- 6. (Original) The image forming apparatus as set forth in claim 4, comprising: detecting means for detecting a pattern indicative of setting the second input/output characteristic value, formed on the reference document, wherein said second setting means sets the second input/output characteristic value when the pattern is detected.
- 7. (Original) The image forming apparatus as set forth in claim 6, comprising: adding means for adding the pattern on the duplicate reference document for re-reading, which was created by the reference image data, to output the duplicate reference document with the pattern, when setting the second input/output characteristic value, which is used in the second image forming mode.

- 8. (Original) The image forming apparatus as set forth in claim 7, wherein said adding means adds the pattern on a front end portion in a transport direction of the duplicate reference document for re-reading.
- 9. (Original) The image forming apparatus as set forth in claim 6, comprising: prohibiting means for prohibiting setting the second input/output characteristic value when the pattern was not detected.
- 10. (Original) The image forming apparatus as set forth in claim 4, wherein said second setting means creates and sets the second input/output characteristic value by comparing third reference image data, which is obtained by reading the duplicate reference document by said image reading section, and the pre-stored target value.
- 11. (Original) An image processing method of an image processing apparatus for forming an image in a plurality of image forming modes and having input/output characteristic values respectively corresponding to the plurality of image forming modes, said method comprising the steps of:
 - reading a reference document having a tone pattern formed thereon, as reference image data;
 - setting a first input/output characteristic value, which corresponds to the first image forming mode, from a pre-set target value for setting an input/output characteristic value and from the reference image data; and creating pseudo reference image data from the reference image data using a fixed value which corresponds to a difference in the respective input/output characteristic values, so as to set a second input/output characteristic value, which corresponds to a second image forming mode, from the pseudo reference image data and the pre-set target value.